PATENT APPLICATION Docket No.: 2411.3194.3US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re applicat	tion of:)			
	Farrell G. Bad	Farrell G. Badger et al.)				
For:		METHOD FOR BIOREMEDIATING) UNDETONATED EXPLOSIVE DEVICE)				
Divisional of	. .)			
	Serial No.: Of: Filing Date: Examiner: Art Unit:	09/666,073 Farrell G. Badger, et al. September 19, 2000 Peter A. Nelson 3641))))			
,	<u> </u>	R INFORMATION DISCLOSUR	E STATEMENT			
Commission United States P. O. Box 14	Patent and Trademar		·			
Sir:						
United State	s patent application	ant to 37 C.F.R. § 1.97 for filing r is an Information Disclosure Sted variously by 37 C.F.R. § 1.98:	atement, which includes the			
	Statement of relevan	Statement of relevance of selected cited references not in the English language which are not translated.				
		atement that selected cited references are substantially cumulative of an enclosed or eviously submitted reference.				
<u>X</u>	United States Patent	ted cited references were previous and Trademark Office in a prior a late under 35 U.S.C. § 120 or § 1	pplication which is relied upon			

A. Additional Materials Required Due to Content of Information Disclosure Statement

Transmitted are the following documents in addition to the Information Disclosure Statement as required variously under 37 C.F.R. § 1.98: Form PTO-1449 listing one hundred eighteen (118) references submitted for _X_ consideration. Copies of _____ (__) of the references listed on the Form PTO-1449. Specimens constituting _____(__) of the references listed on the Form PTO-1449. English translations of _____(__) of the references listed on the Form PTO-1449 which are not in the English language. _X_ Copies of the following documents from the prosecution of the Parent Application: X Sheets of Form PTO-1449 as follows: XAs initialed by the Examiner on June 25, 2001, listing references A1-A47; As initialed by the Examiner on June 25, 2001, listing references A1-<u>X</u> A3; As initialed by the Examiner on June 25, 2001, listing references A1-_X_ A4; \mathbf{X} As initialed by the Examiner on February 22, 2002, listing references A1-A7; As initialed by the Examiner on April 7, 2003, listing references A1-X A59; and <u>X</u> Sheets of Form PTO-892 as follows: X As mailed from the Patent Office with Office Action on July 7, 2001. listing references A-B; and

March 21, 2002, listing references A-C.

As mailed from the Patent Office with Office Action on

<u>X</u>

B.	Additional	Materials	Required	Due to	Timing	of Filing	of Info	ormation	Disclos	ure
	Statement		-							

The transmitted Information Disclosure Statement is being filed within one (1) of the following four (4) time periods:

I.	<u>X</u>	Prior to the later of either three (3) months following the filing date or the mailing of a first Office Action. Accordingly, no materials other than those listed above are enclosed.
II .	,	Following the later of either three (3) months following the filing date or the mailing of a first Office Action, but before the mailing of a final Office Action or a Notice of Allowance. Accordingly, to secure consideration thereof, one (1) of the following is also enclosed or authorized:
		Promptness Certificate; or
		The submission fee set forth in 37 C.F.R. § 1.17 (p) in the amount of \$180.00 is one (1) of the following:
		; or
		To be paid from the deposit account of the undersigned as authorized in Section C below.
III.		After the mailing of a final Office Action or a Notice of Allowance, but before payment of the Issue Fee. Accordingly, in order to secure consideration thereof, each of the following are also enclosed or authorized:
		Promptness Certificate; and
		The petition fee set forth in 37 C.F.R. § 1.17(p) in the amount of \$180.00 is one (1) of the following:
		; or
		To be paid from the deposit account of the undersigned as authorized in Section C below.
IV.		After payment of the Issue Fee. Accordingly, in order to secure consideration thereof, each of the following are enclosed or authorized:

-	To withdraw the above-captioned application from issue, the following are enclosed:				
	Petition to Withdraw from Issue; and				
	The petition fee set forth in 37 C.F.R. § 1.17(i)(l) in the amount of \$130.00 is one (1) of the following:				
	; or				
	To be paid from the deposit account of the undersigned as authorized in Section C below.				
_ To pr	roceed with further prosecution, the following are enclosed:				
	Request for Continued Examination; and				
	The fee for requesting continued examination set forth in 37 C.F.R. § 1.17(e) in the amount of \$710.00 is one (1) of the following:				
	; or				
	To be paid from the deposit account of the undersigned as authorized in Section C below.				
	The submission fee set forth in 37 C.F.R. § 1.17(p) in the amount of \$180.00 is one (1) of the following:				
	; or				
	To be paid from the deposit account of the undersigned as authorized in Section C below.				

C. Fees

The Commissioner is hereby authorized to charge payment of or any deficiency in the following fees associated with this communication, or to credit any overpayment thereof, to Deposit Account No. 20-1469.

- X Any fee required in relation to filing of this letter or any documents transmitted therewith.
- The submission fee set forth in 37 C.F.R. § 1.17(p) in the event that 37 C.F.R. § 1.97(c) applies and the Examiner is not satisfied that any Promptness Certificate submitted meets the requirements of 37 C.F.R. § 1.97(e)
- The submission fee set forth in 37 C.F.R. § 1.17(p).
- The petition fee set forth in 37 C.F.R. \S 1.17(i)(1).
- X Copies in duplicate of this letter are enclosed.

DATED this **3** day of November, 2003.

Respectfully submitted,

KENT S BURNINGHAM Attorney for Applicant Registration No. 30,453

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KSB/csw

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Docket: 2411.3194.3US

PATENT APPLICATION Docket No.: 2411.3194.3US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of	:)
	Farrell G. Badg	er et al.)
For:		R BIOREMEDIATING ED EXPLOSIVE DEVICE)
Divisional of:)
	Serial No.: Of: Filing Date: Examiner:	09/666,073 Farrell G. Badger, et al. September 19, 2000 Peter A. Nelson)))
	Art Unit:	3641)

<u>INFORMATION DISCLOSURE STATEMENT</u>

Mail Stop: PATENT APPLICATION Commissioner for Patents United States Patent and Trademark Office P.O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

Pursuant to 37 C.F.R. §§1.97 and 1.98(a)(1), transmitted herewith is a Form PTO-1449 containing a list of all patents, publications, or other references that have come to the attention of one or more of the individuals identified in 37 C.F.R. §1.56(c). While no representation is made that any of these references may be "prior art" within the meaning of that term under 35 U.S.C. §102 or §103, the transmitted list of references is disclosed in compliance with the duty of disclosure set forth in 37 C.F.R. §1.56.

No representation is made that a specific search of office files or Patent Office records has been conducted, or that no better art exists. Nevertheless, the undersigned attorney of record believes that the transmitted references constitute art that is the closest to the claimed invention taken in its entirety of which the undersigned is presently aware, and no art which is closer to the claimed invention taken in its entirety has been knowingly withheld.

The references listed on the transmitted Form PTO-1449 are below classified for the convenience of the Examiner in the following category of references set forth for specific treatment in accordance with the subsections of 37 C.F.R. §1.98.

I. <u>REFERENCES PREVIOUSLY DISCLOSED</u>

The following references listed on the transmitted Form PTO-1449 were each previously submitted or cited by the United States Patent and Trademark Office in the prior prosecution of United States Patent Application Serial No. 09/666,073 filed on September 19, 2000 (hereinafter "the Parent Application"), which is relied upon by the present application for an earlier filing date under 35 U.S.C. § 121:

1. <u>U.S. Patent Documents Previously Disclosed</u>:

Document No.	Issue Date	Patentee
2,330,110	09/21/43	Buchan
3,157,119	11/17/64	Porter
3,710,718	01/16/73	Grant
4,016,117	04/05/77	Griffin
4,044,684	08/30/77	Gaggini et al.
4,064,941	12/27/77	Smith
4,108,728	08/22/78	Spinner et al.
4,351,729	09/28/82	Witt
4,365,557	12/28/82	Couture et al.
4,826,601	05/02/89	Spratt et al.
4,845,034	07/04/89	Menger et al.
4,919,813	04/24/90	Weaver
4,925,552	05/15/90	Bateson et al.
4,929,552	05/29/90	Gold et al.
4,961,381	10/09/90	McLaughlin
4,968,427	11/06/90	Glanser et al.
5,011,614	04/30/91	Gresser et al.
5,062,956	11/05/91	Lupton et al.
5,071,755	12/10/91	Nelson et al.

1. <u>U.S. Patent Documents Previously Disclosed</u> (continued)

Document No.	Issue Date	Patentee
5,085,998	02/04/92	Lebron et al.
5,120,441	06/09/92	Jackson et al.
5,139,365	08/18/92	Chesner
5,139,776	08/18/92	Chazono et al.
5,296,146	03/22/94	Jackson et al.
5,302,285	04/12/94	Attaway et al.
5,314,821	05/24/94	Tyndall
5,370,845	12/06/94	Miller et al.
5,387,271	02/07/95	Crawford et al.
5,392,860	02/28/95	Ross
5,414,198	05/09/95	Broadman et al.
5,420,035	05/30/95	Tyndall
5,449,618	09/12/95	Tyndall et al.
5,455,173	10/03/95	Crawford et al.
5,478,743	12/26/95	Perkins et al.
5,484,730	01/16/96	Tyndall et al.
5,511,482	04/30/96	DiPietropolo
5,518,919	05/21/96	Tyndall
5,543,324	08/06/96	Rajan et al.

1. <u>U.S. Patent Documents Previously Disclosed</u> (continued)

Document No.	Issue Date	<u>Patentee</u>
5,578,487	11/26/96	Tyndall
5,578,488	11/26/96	Tyndall et al.
5,593,888	01/14/97	Glaze et al.
5,610,062	03/11/97	Tyndall
5,616,162	04/01/97	Crawford et al.
5,711,020	01/20/98	Wolfe et al.
5,736,669	04/07/98	Thomas et al.
5,763,736	06/09/98	Daume
5,763,815	06/09/98	Thomas et al.
5,814,514	09/29/98	Steffan et al.
5,928,859	07/27/99	Nicklin et al.
6,051,420	04/18/00	Radtke et al.
6,066,772	05/23/00	Hater et al.
6,084,150	07/04/00	Crawford et al.
6,120,627	09/19/00	Badger et al.
6,156,560	12/05/00	Chun
6,248,580	06/19/01	Spain et al.
6,274,368	08/14/01	Nicklin et al.
6,334,954	01/01/02	Crawford et al.

1. <u>U.S. Patent Documents Previously Disclosed</u> (continued)

Issue
Document No. Date Patentee

6,348,639 02/19/02 Crawford et al.

2002/0078849 06/27/02 Badger et al.

2. Foreign Patent Documents Previously Disclosed:

Country	Document Number	<u>Date</u>
Europe	251,320	01/07/88
Europe	512,660	11/11/92
Germany	3,818,398	12/14/89
Germany	4,141,940	12/23/93
Great Britain	1,396,372	06/04/75
Netherlands	8,602,985	06/16/88
PCT	WO 91/15440	10/17/91
PCT	WO 95/01311	01/12/95
PCT	WO 95/03259	02/02/95
Russia	2,039,251	07/09/95

3. Other References:

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Pursuant to 37 C.F.R. §1.98(d), copies of the above-listed references are not included herewith. Nonetheless, if it would facilitate the convenience of the Examiner in the prosecution of the above-captioned new application, copies of all or any of the above-listed references will promptly be provided, by hand delivery, if desired upon a telephonic request for such made by the Examiner to the undersigned at any of the telephone numbers listed below the signature thereof on the last page of this document. The references can be provided individually or collectively in a tabulated looseleaf notebook with a correlating table of contents.

Pursuant to Manual of Patent Examining Procedure (M.P.E.P.) § 2001.06(b), the Examiner is respectfully requested to state in the record that each of the above-listed references have been considered in the present prosecution.

For convenience, copies of each of the following seven (7) forms from the prosecution of the Parent Application are enclosed:

- 1. Form PTO-1449 listing references A1-A47 initialed by the Examiner on June 25, 2001 (3 pages);
- 2. Form PTO-1449 listing references A1-A3 initialed by the Examiner on June 25, 2001 (1 page);
- 3. Form PTO-1449 listing references A1-A4 initialed by the Examiner on June 25, 2001 (1 page);
- 4. Form PTO-1449 listing references A1-A7 initialed by the Examiner on February 22, 2002 (1 page);
- 5. Form PTO-1449 listing references A1-A59 initialed by the Examiner on April 7, 2003 (5 pages);
- 6. Form PTO-892 listing references A-B mailed from the Patent Office on July 17, 2001 (1 page); and
- 7. Form PTO-892 listing references A-C mailed from the Patent Office on March 21, 2002 (1 page).

DATED this Zoday of November, 2003.

Respectfully submitted,

KENT S BURNINGHAM Attorney for Applicants Registration No. 30,453

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Form PTO-1449

Applicant:

For:

Farrell G. Badger et al.

Att'y Docket No. 2411.3194.3US

METHOD FOR

BIOREMEDIATING UNDETONATED EXPLOSIVE DEVICE

Divisional of:

Serial No.:

09/666,073

Of:

Farrell G. Badger et al.

Filing Date:

September 19, 2000

Examiner:

Peter A. Nelson

Art Unit:

3641

INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANT

U.S. Patent Documents

Examiner <u>Initial*</u>	Document <u>Number</u>	Issue <u>Date</u>	Name	Class	Sub <u>Class</u>	Filing Date
A1	2,330,110	09/21/43	Buchan	166	21	10/31/41
A2	3,157,119	11/17/64	Porter	102	21.8	01/27/61
A3	3,710,718	01/16/73	Grant	102	23	02/04/71
A4	4,016,117	04/05/77	Griffin	260	17.4	11/25/74
A5	4,044,684	08/30/77	Gaggini et al.	102	90	07/13/76
A6	4,064,941	12/27/77	Smith	166	300	08/02/76
A7	4,108,728	08/22/78	Spinner et al.	195	127	07/28/76
A8	4,351,729	09/28/82	Witt	210	603	02/06/80
A9	4,365,557	12/28/82	Couture et al.	102	341	09/22/80
A10	4,826,601	05/02/89	Spratt et al.	210	610	08/01/86
A11	4,845,034	07/04/89	Menger et al.	435	167	01/06/86
A12	4,919,813	04/24/90	Weaver	210	603	08/25/89
A13	4,925,552	05/15/90	Bateson et al.	210	150	05/12/88
A14	4,929,552	05/29/90	Gold et al.	435	128	11/17/89
A15	4,961,381	10/09/90	McLaughlin	102	319	05/12/89
A16	4,968,427	11/06/90	Glanser et al.	210	610	05/01/89
A17 .	5,011,614	04/30/91	Gresser et al.	210	761	04/20/89

continued . . .

Examiner:

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Att'y Docket No. 2411.3194.3US

Form PTO-1449

Applicant:

For:

Farrell G. Badger et al.

METHOD FOR BIOREMEDIATING

UNDETONATED EXPLOSIVE DEVICE

Divisional of:

Serial No.:

09/666,073

Of:

Farrell G. Badger et al.

Filing Date: Examiner: September 19, 2000 Peter A. Nelson

Art Unit:

3641

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	Ī	J.S. Patent Docus	ments continued			
Examiner <u>Initial*</u>	Document <u>Number</u>	Issue <u>Date</u>	<u>Name</u>	<u>Class</u>	Sub Class	Filing <u>Date</u>
A18	5,062,956	11/05/91	Lupton et al.	210	611	03/20/90
A19	5,071,755	12/10/91	Nelson et al.	210	611	07/09/90
A20	5,085,998	02/04/92	Lebron et al.	435.	262	05/07/91
A21	5,120,441	06/09/92	Jackson et al.	210	602	05/30/90
A22	5,139,365	08/18/92	Chesner	405	129	09/04/90
A23	5,139,776	08/18/92	Chazono et al.	424	92	02/03/89
A24	5,296,146	03/22/94	Jackson et al.	210	602	06/08/92
A25	5,302,285	04/12/94	Attaway et al.	210	605	09/20/93
A26	5,314,821	05/24/94	Tyndall	435	252.1	02/01/93
A27	5,370,845	12/06/94	Miller et al.	422	186.3	08/30/91
A28	5,387,271	02/07/95	Crawford et al.	71	9	07/23/93
A29	5,392,860	02/28/95	Ross	166	376	03/15/93
A30	5,414,198	05/09/95	Broadman et al.	588	202	08/12/94
A31	5,420,035	05/30/95	Tyndall	435	252.1	02/28/94
A32	5,449,618	09/12/95	Tyndall et al.	435	262.5	12/16/93
A33	5,455,173	10/03/95	Crawford et al.	435	264	04/18/94
A34	5,478,743	12/26/95	Perkins et al.	435	262.5	03/11/94
A35	5,484,730	01/16/96	Tyndall et al.	435	264	02/21/95
A36	5,511,482	04/30/96	DiPietropolo	102	426	07/11/94

continued . . .

Examiner:

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Att'y Docket No. 2411.3194.3US

Form PTO-1449

Applicant:

For:

Farrell G. Badger et al.

FOR BIOREMEDIATING

METHOD UNDETONATED EXPLOSIVE DEVICE

Divisional of:

Serial No.:

09/666,073

Of:

Farrell G. Badger et al.

Filing Date:

September 19, 2000 Peter A. Nelson

Examiner: Art Unit:

3641

ZII	Patent Documents	continued

	<u>U.S.</u>	. Patent Docum	ents continued			
Examiner <u>Initial*</u>	Document Number	Issue <u>Date</u>	<u>Name</u>	Class	Sub <u>Class</u>	Filing <u>Date</u>
A37	5,518,919	05/21/96	Tyndall	435	262.5	02/15/95
A38	5,543,324	08/06/96	Rajan et al.	435	252.4	02/28/95
A39	5,578,487	11/26/96	Tyndall	435	262.5	05/19/95
A40	5,578,488	11/26/96	Tyndall et al.	435	262.5	11/26/96
A41	5,593,888	01/14/97	Glaze et al.	435	262.5	04/05/94
A42	5,610,062	03/11/97	Tyndall	435	252.4	05/19/95
A43	5,616,162	04/01/97	Crawford et al.	71	9	10/20/95
A44	5,711,020	01/20/98	Wolfe et al.	588	203	04/16/96
A45	5,736,669	04/07/98	Thomas et al.	102	293	06/04/96
A46	5,763,736	06/09/98	Daume	588	203	04/10/97
A47	5,763,815	06/09/98	Thomas et al.	102	293	06/04/96
A48	5,814,514	09/29/98	Steffan et al.	435	262	07/10/96
A49	5,928,859	07/27/99	Nicklin et al.	435	4	02/02/88
A50	6,051,420	04/18/00	Radtke et al.	435	262.5	05/20/98
A51	6,066,772	05/23/00	Hater et al.	588	202	08/28/98
A52	6,084,150	07/04/00	Crawford et al.	588	244	02/12/97
A53	6,120,627	09/19/00	Badger et al.	149	108.8	10/18/96
A54	6,156,560	12/05/00	Chun	435	253.3	07/07/99
A55	6,248,580	06/19/01	Spain et al.	435	262.5	12/23/98

continued . . .

Examiner:

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449

Applicant:

Farrell G. Badger et al.

Att'y Docket No. 2411.3194.3US

For:

METHOD FOR **BIOREMEDIATING**

UNDETONATED EXPLOSIVE DEVICE

Divisional of:

Serial No.:

09/666,073

Of:

Farrell G. Badger et al.

Filing Date:

September 19, 2000 Peter A. Nelson

Examiner: Art Unit:

3641

U.S. Patent	Documents	٠	•	•	continuea	

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Examiner <u>Initial*</u>	Document Number	Issue <u>Date</u>	•	Name	Class	Sub <u>Class</u>	Filing <u>Date</u>
A56	6,274,368	08/14/0	01	Nicklin et al.	435	252.1	12/23/98
A57	6,334,954	01/01/0	02	Crawford et al.	210	610	06/05/00
A58	6,348,639	02/19/0	02	Crawford et al.	588	244	06/06/00
A59	2002/0078849	06/27/0	02	Badger et al.	102	293	12/31/01
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		Foreign	Patent	Documents			
Examiner <u>Initial*</u>	Document Number	Pub. <u>Date</u>		try or t Office	Sub Class	Class	Trans- lation
A60	251,320	01/07/88	Europ	pe -	C02F	3/34	N/A

Examiner <u>Initial*</u>		Document Number	Pub. <u>Date</u>	Country or Patent Office	Sub <u>Class</u>	Class	Trans- lation
	A60	251,320	01/07/88	Europe	C02F	3/34	N/A
	A61	512,660	11/11/92	Europe	A62D	3/00	Yes
	A62	3,818,398	12/14/89	Germany	A01B	79/00	Yes
	A63	4,141,940	12/23/93	Germany	F42D	5/04	Yes
	A64	1,396,372	06/04/75	Great Britain	C06B	31/00	N/A
	A65	8,602,985	06/16/88	Netherlands	B09B	3/00	Yes
	A66	WO 91/15440	10/17/91	PCT	C05F	11/08	N/A
	A67	WO 95/01311	01/12/95	PCT	C02F	3/34	Yes
	A68	WO 95/03259	02/02/95	PCT	C05F	11/08	N/A
	A69	2,039,251	07/09/95	Russia	E21C	37/00	Yes

Examiner:	Date Considered:

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EXPRESS MAIL	LABEL NO. EV325783240US	Sheet 5 of 10
Form PTO-1449 Applicant: For:	Farrell G. Badger et al. METHOD FOR BIOREMEDIATI UNDETONATED EXPLOSIVE DEVICE	Att'y Docket No. 2411.3194.3US
Divisional of:		
. •	Serial No.: 09/666,073 Of: Farrell G. Badger et al. Filing Date: September 19, 2000 Examiner: Peter A. Nelson Art Unit: 3641	
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A70	Berry, D.F., et al., Microbial Metabolism of Compounds Under Anaerobic Conditions, 1987).	f Homocyclic and Heterocyclic Aromatic 51(1) MICROBIOL. REV. 43-59 (Mar.
A71	Boopathy, R., et al., Biological Transforma Soil Bacteria Isolated from TNT - Contamin TECHNOLOGY 19 (1994).	ntion of 2, 4, 6 - Trinitrotoluene (TNT) By nated Soil, 47 BIORESOURCE
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A74	Cartwright, N.J. et al., <i>Bacterial Degradation</i> BIOCHEM. J. 248-261 (1959).	on of the Nitrobenzoic Acids, 71
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Examiner:	Date Considered:

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EXPRESS MAIL LABEL NO. EV325783240US Sheet				
Form PTO-1449 Applicant: For:	Farrell G. Bad METHOD UNDETONAT	FOR	BIOREMEDIATING PLOSIVE DEVICE	Att'y Docket No. 2411.3194.3US
Divisional of:				
	Serial No.: Of: Filing Date: Examiner: Art Unit:	Septen	5,073 G. Badger et al. nber 19, 2000 A. Nelson	
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Examiner <u>Initial*</u>				,
A80	Site Cleanup In dinitro-6-sec-b propylphenol, 2	nvestigat utylphen 24(1) J. I	al., Isotopically Labelled Cions: Part I. Synthesis of [poldinoseb] and [phenyl-ULABELLED COMPOUND TICALS 35-42 (1991).	Compounds for Hazardous Waste phenyl-Usup.14 C] labelled 2,4- -sup.14 C] labelled 4-n- S AND
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A82	Heinis, F.S., et TECHNIEK 7-	al., <i>Verv</i> 15 (1984	vijdering van Bodemveront i).	reiniging, 39 PT/CIVIELE
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Examiner: Date Considered:

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Form PTO-1449 Applicant: For:	Farrell G. Bad METHOD UNDETONAT	ger et al. FOR BIOREMEDIATING TED EXPLOSIVE DEVICE	Att'y Docket No. 2411.3194.3US
Divisional of:	Serial No.: Of: Filing Date: Examiner: Art Unit:	09/666,073 Farrell G. Badger et al. September 19, 2000 Peter A. Nelson 3641	·
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Examiner Initial*			
A90	Streams Conta	nn P., et al., Chemical and Biological minated with High Explosives, paper ental Protection Subcommittee Meeti	submitted for JANNAF Safety
A91	Kuhn, Elmar P Laboratory Aq 1988).	., et al., Anaerobic Degradation of A uifer Columns, 54(2) APPL. ENVIR	lkylated Benzenes in Denitrifying ON. MICROBIOL. 490-496 (Feb.
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Date Considered:

Examiner:

Form PTO-1449 Applicant: For:	Farrell G. Bad METHOD UNDETONAT	ger et al. FOR BIOREMEDIATING I'ED EXPLOSIVE DEVICE	Att'y Docket No. 2411.3194.3U
Divisional of:			
Divisional of.	Serial No.: Of: Filing Date: Examiner: Art Unit:	09/666,073 Farrell G. Badger et al. September 19, 2000 Peter A. Nelson 3641	
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Examiner <u>Initial*</u>	·		
A100			bic Degradation: Environmental JAEROBIC MICROORGANISMS
A101		nin, Physical and Chemical Behavio 1) ENVIRON. SCI. TECHNOL. 12	
A102	Studies of Nitro	nammed, et al., Enhanced Alkaline i ocellulose-Bearing Missile Propell BY 87-98 (January 1998).	Hydrolysis and Biodegradability ant, STEVENS INSTITUTE OF
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Examiner: Date Considered:

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EXPRESS MAIL	LABEL NO. EV	Sheet 9 of 1		
Form PTO-1449 Applicant: For:	Farrell G. Bad METHOD UNDETONA	ger et al. FOR BIOREMEDIATING FED EXPLOSIVE DEVICE	Att'y Docket No. 2411.3194.3US	
Divisional of:	Serial No.: Of: Filing Date: Examiner: Art Unit:	09/666,073 Farrell G. Badger et al. September 19, 2000 Peter A. Nelson 3641		
. 1		Other Documents continued		
Examiner <u>Initial*</u>				
A111		G., et al., Abiotic Reduction of Nitistems, 37 J. AGRIC. FOOD CHEM	o Aromatic Pesticides in Anaerobic . 248-254 (1989).	
A112		eas, et al., <i>Methanogenic Degradati</i> e), 11 SYSTEM. APPL. MICROBI		
A113	Vlassak, K., et	al., Dinoseb as a Specific Inhibitor	of Nitrogen Fixation in Soil, 8	

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Examiner:	•	Date Considered:

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449

Applicant:

Farrell G. Badger et al.

Att'y Docket No. 2411.3194.3US

For:

METHOD FOR

BIOREMEDIATING UNDETONATED EXPLOSIVE DEVICE

Divisional of:

Serial No.:

09/666,073

Of:

Farrell G. Badger et al.

Filing Date: Examiner:

September 19, 2000 Peter A. Nelson

Art Unit:

3641

References Cited by Applicants

While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 609 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and a translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant), an explanation of relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec. 609.

Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guidelines which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next communication. The original of the form will be entered into the application file.

Each citation initialed by the Examiner will be printed on the issued patent in the same manner as references cited by the Examiner on Form PTO-892.

The reference designations "A1," "A2," etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A," "B," "C," etc. on Office Action Form PTO-1142.

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Examiner:

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXPRESS MAIL LABEL NO. EL638948952US

Form PTO-1449

Applicant:

Farrell G. Badger et al.

For:

EXPLOSIVE WITH BIOREMEDIATING CAPACITY AND RELATED METHODS

Divisional of:

Serial No.:

08/743,460

Of:

Farrell G. Badger et al. Filing Date: October 18, 1996

Examiner: Art Unit:

Peter A. Nelson 3641

Sheet 1 of

Att'y Docket No. 2411.3194.2U



INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANT

U.S. Patent Documents

Examiner	Patent	Issue			Sub	D.I.
Initial*	Number	<u>Date</u>	<u>Name</u>	Class	Sub <u>Class</u>	Filing <u>Date</u>
<u> </u>	2,330,110	09/21/43	Buchan	166	21	10/31/41
A2	3,157,119	11/17/64	Porter	102	21.8	01/27/61
A3-	3,710,718	01/16/73	Grant	102	23	02/04/71
A4	4,016,117	04/05/77	Griffin	260	17.4	11/25/74
A5	4,044,684	08/30/77	Gaggini et al.	102	90	07/13/76
A6	4,064,941	12/27/77	Smith	166	300	08/02/76
A7	4,108,728	08/22/78	Spinner et al.	195	127	07/28/76
A8	4,351,729	09/28/82	Witt	210	603	02/06/80
A9	4,365,557	12/28/82	Couture et al.	102	341	09/22/80
A10	4,845,034	07/04/89	Menger et al.	435	167	01/06/86
A11	4,929,552	05/29/90	Gold et al.	435	128	11/17/89
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A13	5,011,614	04/30/91	Gresser et al.	210	761	04/20/89
A14	5,085,998	02/04/92	Lebron et al.	435	262	05/07/91
A15	5,120,441	06/09/92	Jackson et al.	210	602	05/30/90
A16	5,139,365	08/18/92	Chesner	405	129	09/04/90
A17	5,139,776	08/18/92	Chazono et al.	424	92	02/03/89
A18	5,296,146	03/22/94	Jackson et al.	210	602	06/08/92
<u>MM</u> A19	5,302,285	04/12/94	Attaway et al.	210	605	09/20/93
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Examiner:

Date Considered:

JUNE 25, 2001

EXPRESS MAIL LABEL NO. EL638948952US

Sheet 2 of 4

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Att'y Docket No. 2411.3194.2US

Form PTO-1449

Applicant: For:

Farrell G. Badger et al.

EXPLOSIVE WITH BIOREMEDIATING CAPACITY AND RELATED METHODS

Divisional of:

Serial No.:

08/743,460

Of: Examiner:

Farrell G. Badger et al. Filing Date: October 18, 1996 Peter A. Nelson

Art Unit:

3641

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Examiner Initial*	Patent Number	Issue Date	Name	Class	Sub <u>Class</u>	Filing _Date_
SKM A20	5,314,821	05/24/94	Tyndall	435	252.1	02/01/93
A21	5,370,845	12/06/94	Miller et al.	422	186.3	08/30/91
A22	5,387,271	02/07/95	Crawford et al.	7Ì	9	07/23/93
A23	5,392,860	02/28/95	Ross	166	376	03/15/93
A24	5,414,198	05/09/95	Broadman et al.	588	202	08/12/94
A25	5,420,035	05/30/95	Tyndall	435	252.1	02/28/94
A26	5,449,618	09/12/95	Tyndail et al.	435	262.5	12/16/93
A27	5,455,173	10/03/95	Crawford et al.	435	264	04/18/94
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A30	5,511,482	04/30/96	DiPietropolo	102	426	07/11/94
A31	5,518,919	05/21/96	Tyndall	435	262.5	02/15/95
A32	5,543,324	08/06/96	Rajan et al.	435	252.4	02/28/95
A33	5,578,488	11/26/96	Tyndall et al.	435	262.5	11/26/96
A34	5,593,888	01/14/97	Glaze et al.	435	262.5	04/05/94
A35	5,610,062	03/11/97	Tyndall	435	252.4	05/19/95
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A37	5,711,020	01/20/98	Wolfe et al.	588	203	04/16/96
A38	5,736,669	04/07/98	Thomas et al.	102	293	06/04/96
/ A39	5,763,736	06/09/98	Daume	588	203	04/10/97

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Form PTO-1449

Applicant:

Farrell G. Badger et al.

For:

EXPLOSIVE WITH BIOREMEDIATING CAPACITY AND RELATED METHODS

Divisional of:

Serial No.:

08/743,460

Of: Filing Date:

Farrell G. Badger et al. October 18, 1996 Peter A. Nelson

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Sheet 3 of 4

Att'y Docket No. 2411.3194.2US

Examiner Initial* A40 A41	Patent <u>Number</u> 5,763,815 5,814,514	Issue <u>Date</u> 06/09/98 09/29/98	Name Thomas et al. Steffan et al.	<u>Class</u> 102 435	Sub <u>Class</u> 293 262	FilingDate		
Foreign Patent Documents								
Examiner Initial*	Document <u>Number</u>	Publ. <u>Date</u>	Country or Patent Office	Sub <u>Class</u>	<u>Class</u>	Trans- lation		
A42	512,660	11/11/92	Europe	A62D	3/00	Yes		

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Sheet 1 of 1

Group: 3641

Att'y Docket No. 2411.3194.2US

Farrell G. Badger et al.

Applicant: Farrell G. F Serial No.: 09/666,073

Filing Date: September 19, 2000

09/000,073 September 19, 2000

METHOD FOR BIOREMEDIATING UNDETONATED EXPLOSIVE DEVICE

INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANT

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Olan A2	6,051,420	04/18/00	Radtke et al.	435	262.5	05/20/98
JEUL A3	6,066,772	05/23/00	Hater et al.	588	202	08/28/98

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Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guidelines which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next communication. The original of the form will be entered into the application file.

Each citation initialed by the Examiner will be printed on the issued patent in the same manner as references cited by the Examiner on Form PTO-892.

The reference designations "A1", "A2", etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A", "B", "C", etc. on Office Action Form PTO-1142.

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Farrell G. Badger et al.

09/666,073

September 19, 2000 Filing Date:

METHOD FOR BIOREMEDIATING UNDETONATED EXPLOSIVE DEVICE

Sheet 1 of 1

Group: 3641

Att'y Docket No. 2411.3194.2US

INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANT

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Examiner Initial* Al	Patent Number 6,120,627	Issue <u>Date</u> 09/19/00	<u>Name</u> Badger et al.	Class 149	Sub Class 108.8	Filing Date 10/18/96
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Examiner Initial*	Document Number	Publ. <u>Date</u>	Country or Patent Office	Sub <u>Class</u>	Class	Trans- lation
94m_ A2	4,141,940	12/23/93	Germany	F42D	5/04	Yes .
Charles A3	2,039,251	07/09/95	Russia	BATE	=13768	Yes
				MPR	2'5 2001	
		Ω	Other Documents	50 3600	MAIL ROOM	

References Cited by Applicants

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Form PTO-1449

Applicant: Serial No.:

Farrell G. Badger et al.

09/666,073

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METHOD FÓR BIOREDIATING

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Att'y Docket No. 2411.3194.2US Group: 3641

INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANT

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Examiner Initial*	Patent Number	Issue Date	<u>Name</u>	Class	Sub Class	Filing Date
Al Al	5,928,859	07/27/99	Nicklin et al.	435	4	02/02/88
A2	6,084,150	07/04/00	Crawford et al.	588	244	02/12/97
A3	6,156,560	12/05/00	Chun	. 435	253.3	07/07/99
A4	6,248,580	06/19/01	Spain et al.	435	262.5	12/23/98
A5	6,274,368	08/14/01	Nicklin et al.	435	252.1	12/23/98
A6	6,334,954	01/01/02	Crawford et al.	210	610	06/05/00
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A7	1,396,372	06/04/75	Great Britain			PH 12:
			Other Documents none			3600 : 56

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Farrell G. Badger et al.

09/666,073

September 19, 2000

Att'y Docket No. 2411.3194.2US

Group: 3641

METHOD FOR BIOREMEDIATING UNDETONATED EXPLOSIVE DEVICE

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Examiner Initial*	Document Number	Issue/Pub. <u>Date</u>	<u>Name</u>	Class	Sub Class	Filing Date	
A1	4,826,601	05/02/89	Spratt et al.	210	610	08/01/86	
A2	4,919,813	04/24/90	Weaver	210	603	08/25/89	
A3	4,925,552	05/15/90	Bateson et al.	210	150	05/12/88	
A4	4,968,427	11/06/90	Glanser et al.	210	610	05/.01/89	
A5	5,062,956	11/05/91	Lupton et al.	210	611	03/20/90	
A6	5;071,755	12/10/91	Nelson et al.	210	611	07/09/90	
A7	6,084,150	07/04/00	Crawford et al.	588	244	02/12/97	
A8	6,334,954	01/01/02	Crawford et al.	210	610	06/05/00	
A9	6,348,639	02/19/02	Crawford et al.	588	244	06/06/00	
A10	2002/0078849	06/27/02	Badger et al.				

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A11	251,320	01/07/88	Europe	C02F	3/34	N/A
A12	3,818,398	12/14/89	Germany	A01B	79/00	Yes
A13	8,602,985	06/16/88	Netherlands	B09B	3/00	Yes
A14	WO 91/15440	10/17/91	PCT	C05F	11/08	N/A
A15	WO 95/01311	01/12/95	PCT	C02F	3/34	Yes
A16	WO 95/03259	02/02/95 .	PCT	C05F	11/08	N/A

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September 19, 2000

Att'y Docket No. 2411.3194.2US

Group: 3641

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	_ A25	Site Cleanup Investigations	"Isotopically Labelled Compour : Part I. Synthesis of [phenyl-U- dinoseb) and [phenyl-Usup.14 BELLED COMPOUNDS AND CALS 35-42 (1991).	.sup.1. 0]
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7	A27	TECHNIEK 7-15 (1984).	jdering van Bodemverontreinigi	
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Farrell G. Badger et al.

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Date Considered: 2003 Examiner: 18/50N

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Group: 3641

Att'y Docket No. 2411.3194.2US



Farrell G. Badger et al.

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A41	Rafii, Fatemeh, et al., "Reduction of Azo Dyes and Nitroaromatic Compounds by the Same Extracellular Enzyme from Clostridium perfringens," in ABSTR. 93 rd GEN. MEET. AM. SOC. MICROBIOL. 276 (1993).
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A49	Stevens, Todd O., "Biodegradation of Dinoseb (2-sec-Butyl-4,6-Dinitrophenol) and Bioremediation of Dinoseb-Contaminated Soils" (Nov. 1989).
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A51	Tratnyek, Paul G., "Abiotic Reduction of Nitro Aromatic Pesticides in Anaerobic Laboratory Systems Designed to Model Dissolved Organic Matter" (Aug. 1987).
A52	Tratnyek, Paul G., et al., "Abiotic Reduction of Nitro Aromatic Pesticides in Anaerobic Laboratory Systems," 37 J. AGRIC. FOOD CHEM. 248-254 (1989).
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Group: 3641

Att'y Docket No. 2411.3194.2US

Farrell G. Badger et al.

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A55

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A56

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While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 609 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and a translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant), an explanation of relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec: 609.

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